

AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1 (currently amended): An apparatus for servicing an automobile fluid containing subsystem having a fluid reservoir with a subsystem pump and a subsystem inlet and a subsystem outlet, said apparatus comprising:

a manifold defining an exhaust port for coupling to said subsystem inlet, a return port for coupling to said subsystem outlet, a fresh fluid port, and a used fluid port;

a fluid transfer circuit at least partially formed within said manifold between said ports;

a drain/bypass valve having a fluid receiving inlet in communication with said return port and a multi-directional outlet, said drain/bypass valve being selectively operable to place said return port in fluid communication with either said exhaust port or said used fluid port;

a fresh fluid source coupled to said fresh fluid port;

a common pump coupled to said manifold and interposed between said new and used fluid ports and said exhaust port for pumping a fluid from either of said fluid ports to said exhaust port;

a dump/supply valve having a single fluid expelling outlet in communication with said common pump and a multi-directional inlet, said dump/supply

valve being selectively operable to place either of said used or new fluid ports in fluid communication with said exhaust port; and

whereby, said exhaust port may be coupled to said subsystem inlet and said return port may be coupled to said subsystem outlet, then said subsystem pump activated and said common pump selectively operated to direct at least one fluid through said fluid transfer circuit between ports as determined by the selective operation of at least one of said valves.

Claim 2-7 (canceled)

Claim 8 (currently amended): The apparatus as set forth in claim 1 wherein:
said manifold includes a suction port downstream of said single fluid expelling outlet of said dump/supply valve and a pressure port upstream of said exhaust port in said fluid transfer circuit; and

said common pump includes a suction side coupled to said suction port via a suction hose and a pressure side coupled to said pressure port via a pressure hose.

Claim 9 (original): The apparatus as set forth in claim 1 further including:

a used fluid receptacle coupled to said used fluid port.

Claim 10 (original): The apparatus as set forth in claim 9 wherein:
said used fluid receptacle includes a used fluid sensor for providing a signal
proportional to a used fluid level in said used fluid receptacle; and
said fresh fluid source includes a new fluid sensor for providing a signal
proportional to a fresh fluid level in said fresh fluid source.

Claim 11 (currently amended): The apparatus as set forth in claim 1 further
including:

a fluid transfer segment leading to said second exhaust port and including a
pressure sensor ~~in communication with said fluid transfer segment for sensing responsive~~
~~to a fluid pressure in said fluid transfer segment to generate a pressure related signal.~~

Claim 12 (original): The apparatus as set forth in claim 1 further including:
a drain side filter connected to said manifold and interposed between said return
port and said drain/bypass valve.

Claim 13 (original): The apparatus as set forth in claim 1 further including:
a supply side filter connected to said manifold and interposed between said pump
and said exhaust port.

Claim 14 (original): The apparatus as set forth in claim 1 further including:

a first filter connected to said manifold and interposed between said return port and said drain/bypass valve; and

a second filter connected to said manifold and interposed between said pump and said exhaust port.

Claim 15 (canceled)

Claim 16 (original): The apparatus as set forth in claim 1 wherein:

wherein said first and second valves are 2-position, 3-way solenoid valves.

Claim 17 (original): The apparatus as set forth in claim 1 wherein:
said manifold is constructed of a rigid material and said fluid transfer circuit is formed of passages with rigid walls.

Claim 18 (currently amended): A manifold assembly for use in conjunction with a fluid exchanger including a used fluid receptacle[[,]] and a new fluid tank, said manifold assembly comprising:

a rigid block body housing at least a portion of a fluid circuit including a drain path for directing fluid entering between a return port to and a used fluid port for directing fluid entering said return port to said used fluid port, a bypass path for directing fluid entering between said return port to and an exhaust port for directing fluid entering

said return port to said exhaust port, a supply path ~~for directing fluid entering between~~ a fresh fluid supply port ~~to~~ and said exhaust port for directing fluid entering said fresh fluid supply port to said exhaust port, and a dump path ~~for directing fluid entering between~~ said used fluid port ~~to~~ and said exhaust port for directing fluid entering said used fluid port to said exhaust port, said ports being accessible on an outer surface of said body and said supply and dump paths including include a common passage including said exhaust port, wherein said used fluid port may be connected being adaptable to connect to said used fluid receptacle and said supply port ~~may be connected being adaptable to connect~~ to said new fluid tank;

~~a pump disposed inline with said common passage for pumping fluid through said supply and drain paths;~~

a valving component selectively operable to divert fluid entering said return port between said used fluid port through said drain path and said exhaust port through said bypass path and to direct fluid from either said supply port through said supply path or said drain port through said dump path and into said common passage to said exhaust port; and

a pump disposed inline with said common passage between said valving component and said exhaust port and operable to direct a fluid through said supply and drain paths and out of said exhaust port through said common passage.

~~a rigid block body housing at least a portion of said fluid circuit and formed on its outer surface with said ports.~~

Claim 19 (original): The manifold assembly as set forth in claim 18 further including:

a drain filter interposed in said fluid circuit between said return port and said valving component.

Claim 20 (original): The manifold assembly as set forth in claim 18 further including:

a supply side filter interposed in said fluid circuit between said pump and said exhaust port.

Claim 21 (original): The manifold assembly as set forth in claim 18 further including:

a drain filter interposed in said fluid circuit between said return port and said valving component; and

a supply side filter interposed in said fluid circuit between said pump and said exhaust port.

Claim 22 (canceled)

Claim 23 (original): The manifold assembly as set forth in claim 18 wherein: said valving component includes first and second valves threadably coupled to said rigid block body with said first valve being selectively operable to divert fluid

entering said return port between said used port and said exhaust port and said second valve being selectively operable to direct fluid from either said supply port or said drain port to said exhaust port.

Claim 24 (original): The manifold assembly as set forth in claim 18 further including:

a pressure switch coupled to said rigid block body and disposed in fluid communication with said bypass path and responsive to fluid pressure therein.

Claim 25 (original): The manifold assembly as set forth in claim 18 wherein: said paths are formed of adjacent linear segments within said rigid block body.

Claim 26 (original): The manifold assembly as set forth in claim 18 wherein: said rigid block body is formed of aluminum.

Claim 27 (original): The manifold assembly as set forth in claim 18 wherein: said rigid block body is formed of a transparent material.

Claim 28 (original): The manifold assembly as set forth in claim 18 wherein: said rigid block body is formed of a polymeric material.

Claims 29-30 (canceled)

Claim 31 (original): A manifold assembly for use in conjunction with a servicing apparatus including a used fluid receptacle, a fresh fluid source, a pump, an inlet servicing hose, and an outlet servicing hose, said assembly comprising:

a fluid circuit defining means including a rigid block manifold having a return port for coupling to said inlet servicing hose, an exhaust port for coupling to said outlet servicing hose, a fresh fluid port for coupling to said fresh fluid source, a used fluid port for coupling to said used fluid receptacle, and a fluid transfer circuit at least partially formed within said manifold between said ports;

a first flow diverting means for selectively diverting fluid entering said return port to either said exhaust port or said used fluid port;

a second flow diverting means for selectively diverting fluid from said used fluid port or said fresh fluid port to said exhaust port; and

a pumping means interposed between said fluid ports and said exhaust port for pumping a fluid from either of said fluid ports to said exhaust port.

Claim 32 (currently amended): A manifold assembly for use in conjunction with a fluid servicing apparatus having used and new fluid tanks and a pair of service hoses comprising:

a rigid manifold body defining first and second pathways ~~for operable to conduct~~ fluid transfer therethrough and further defining ~~at least one filter~~ a first filter receiving aperture, a second filter receiving aperture, and at least one valve receiving aperture;

a return port on said manifold body adapted to be coupled to an end of one of said service hoses;

an exhaust port on said manifold body adapted to be coupled to an end of an other of said service hoses;

a used fluid port on said manifold body in ~~fluid~~ communication with said return port via said first pathway and adapted to be coupled to said used fluid tank;

a new fluid port on said manifold body in ~~fluid~~ communication with said exhaust port via said second pathway and adapted to be coupled to said new fluid tank;

a first filter coupled to said manifold in said first filter receiving aperture and operable to filter fluid passing through ~~at least one of~~ said first pathway[[s]]; and
a second filter coupled to said manifold in said second filter receiving aperture and operable to filter fluid passing through said second pathway; and

a valve coupled to said manifold in said valve receiving aperture and selectively operable to divert fluid between said pathways.

Claims 33-34 (canceled)